NAME

iswalpha, iswupper, iswlower, iswdigit, iswxdigit, iswalnum, iswspace, iswpunct, iswprint, iswcntrl, iswascii, iswgraph, isphonogram, isideogram, isenglish, isnumber, isspecial – Process Code character classification macros and functions

SYNOPSIS

cc [*flag* ...] *file* ... **–lw** [*library* ...]

#include <widec.h>
#include <wctype.h>

int iswalpha(wint_t *c***);**

MT-LEVEL

MT-Safe with exceptions

WIDE CHARACTER CLASSIFICATION

These functions classify Process Code characters (*wchar_t*) from the primary and supplementary codesets by table lookup. Each is a predicate returning nonzero for true, zero for false. The lookup table, generated by **wchrtbl( )**, contains values for both ASCII and supplementary codesets.

iswalpha(*c***)** — *c* is a Latin alphabet Process Code character, from either the primary or supplementary codesets.

iswupper(*c***)** — *c* is an upper case Latin alphabet Process Code character, from either the primary or supplementary codesets.

iswlower(*c***)** — *c* is a lower case Latin alphabet Process Code character, from either the primary or supplementary codesets.

iswdigit(*c***)** — *c* is a Process Code digit [0-9], from either the primary or supplementary codesets.

iswxdigit(*c***)** — *c* is an ASCII hexadecimal Process Code digit [0-9], [A-F], or [a-f].

iswalnum(*c***)** — *c* is a Process Code Latin letter or a digit, from either the primary or supplementary codesets.

iswspace(*c***)** — *c* is a Process Code space, tab, carriage return, newline, vertical tab, or formfeed, from either the primary or supplementary codesets.

iswpunct(*c***)** — *c* is an ASCII Process Code punctuation character (neither control nor alphanumeric).

iswprint(*c***)** — *c* is a Process Code printing character, from either the primary or supplementary codesets. It includes the *space* character.

iswgraph(*c***)** — *c* is a Process Code visible graphic character, from the primary or supplementary codesets. It does not include the *space* character.

iswcntrl(*c***)** — *c* is a Process Code ASCII delete character or ordinary control character, or a control character from a supplementary codeset.

iswascii(*c***)** — *c* is a Process Code ASCII character.

isphonogram(*c***)** — *c* is a Process Code phonetic language character from a supplementary codeset.

isideogram(*c*)	*c* is a Process Code ideographic language character from a supplementary codeset.
isenglish(*c*)	*c* is a Process Code English language character from a supplementary codeset.
isnumber(*c*)	*c* is a Process Code digit [0-9] from a supplementary codeset.
isspecial(*c*)	*c* is a Process Code special language character from a supplementary codeset.

SEE ALSO

setlocale(3C), **stdio**(3S), **wconv**(3I), **ascii**(5)

NOTES

iswalpha( ), **iswupper( )**, **iswlower( )**, **iswdigit( )**, **iswxdigit( )**, **iswalnum( )**, **iswspace( )**, **iswpunct( )**, **iswprint( )**, **iswcntrl( )**, **iswascii( )**, **iswgraph( )**, **isphonogram( )**, **isideogram( )**, **isenglish( )**, **isnumber( )** and **isspecial( )** can be used safely in a multi-thread application, as long as **setlocale**(3C) is not being called to change the locale.